



## SEQUENCE LISTING

&lt;110&gt; Astellas Pharma Inc.

&lt;120&gt; Protein Which Binds To Akt2

&lt;130&gt; Q88255

&lt;140&gt; 10/537,767

&lt;141&gt; 2005-06-06

&lt;150&gt; PCT/JP03/15546

&lt;151&gt; 2003-12-04

&lt;150&gt; JP 2002-354155

&lt;151&gt; 2002-12-05

&lt;150&gt; JP 2003-206952

&lt;151&gt; 2003-08-08

&lt;160&gt; 27

&lt;170&gt; PatentIn version 3.3

&lt;210&gt; 1

&lt;211&gt; 1722

&lt;212&gt; DNA

&lt;213&gt; Mus sp.

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(1719)

&lt;400&gt; 1

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Gly	Tyr	Leu	Phe	Glu	Glu	Ile	Ala	Lys	Ile	Ser	His	Glu	Ser	Leu	Gly	
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Ser	Ser	Gln	Cys	Leu	Leu	Glu	Tyr	Leu	Leu	Asn	Arg	Leu	Asp	Ser	Ser	
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Ser	Gly	Thr	Ser	Arg	Glu	Pro	Gly	Asp	Leu	Ala	Glu	Arg	Ala	Glu	Ala		
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atc	aaa	gag	tgt	ggc	ctg	ctc	aac	tgt	gag	gca	gtg	ctg	gag	ctg	ctc	1056
Ile	Lys	Glu	Cys 340	Gly	Leu	Leu	Asn	Cys 345	Glu	Ala	Val	Leu	Glu 350	Leu	Leu	
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Cys	Ala	Ile	Ala	Ser	Phe	Gly 375	Ser	Ala	Asp	Leu	Leu	Pro	Gln	Glu	His	
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Val	Pro	Ala	Pro	Gly	Ser	Gln	Val 455	Cys	Leu	Gln	Pro	Leu	Ser	Ser	Ala	
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Thr	Val	Val	Pro	Arg	Ser 470	Pro	Val	Leu	Phe	Pro 475	Ser	Pro	Asn	Thr	Leu 480	
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Pro	Pro	Ser	Ala	Leu 485	Glu	Glu	Pro	Ser	Glu 490	Val	Arg	Thr	Gln	Leu 495	Val	
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Cys	Ser	Ser	Glu 500	Gln	Gly	Thr	Glu	Ser 505	Glu	Gln	Arg	Leu	Glu 510	Asn	Thr	
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Asp	Thr	Pro	Glu	Asp	Ser	Ser	Ser 520	Pro	Leu	Pro	Trp	Ser 525	Pro	Asn	Ser	
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Ser Ser Gln Cys Leu Leu Glu Tyr Leu Leu Asn Arg Leu Asp Ser Ser  
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Ser Gly His Val Lys Leu Lys Val Leu Lys Ile Leu Leu Tyr Leu Cys  
 65 70 75 80

Gly His Gly Ser Ser Ser Phe Leu Leu Ile Leu Arg Arg Asn Ser Ala  
 85 90 95

Leu Ile Gln Glu Ala Thr Ala Phe Ser Gly Pro Pro Asp Pro Leu His  
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Gly Asn Ser Leu Tyr Gln Lys Val Arg Ala Ala Ala Gln Asp Leu Gly  
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Ser Thr Leu Phe Ser Asp Ala Val Pro Gln Pro Pro Ser Gln Pro Pro  
 130 135 140

Gln Ile Pro Pro Pro Ala Gly Met Gly Ala Gln Ala Arg Pro Leu Ser

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Ala	Asn	Ala	Val	Arg	Pro	Gly	Pro	Asp	Asn	Pro	Cys	Thr	Lys	Gly	Pro
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Thr	Pro	Pro	Asn	Asp	Cys	Gln	Gln	Glu	Leu	Asn	Leu	Val	Arg	Thr	Val
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Thr	Gln	Gly	Pro	Arg	Val	Phe	Leu	Ser	Arg	Glu	Glu	Thr	Gln	His	Phe
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Ile	Lys	Glu	Cys	Gly	Leu	Leu	Asn	Cys	Glu	Ala	Val	Leu	Glu	Leu	Leu
			340					345					350		
Leu	Arg	Gln	Leu	Val	Gly	Thr	Ser	Glu	Cys	Glu	Gln	Met	Arg	Ala	Leu
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Cys	Ala	Ile	Ala	Ser	Phe	Gly	Ser	Ala	Asp	Leu	Leu	Pro	Gln	Glu	His

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385		390		400
Pro Gly Pro Val Thr Asn Lys Ala Thr Lys Ile Leu Arg His Phe Glu				
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Ala Ser Cys Gly Gln Gln Leu Pro Thr Leu Arg Leu Cys Ala Gln Pro				
	420		425	430
Asn Ser Ala Ala Ala Pro Val Gly Pro Ala Asp Leu Leu Thr Ser Pro				
	435		440	445
Val Pro Ala Pro Gly Ser Gln Val Cys Leu Gln Pro Leu Ser Ser Ala				
	450		455	460
Thr Val Val Pro Arg Ser Pro Val Leu Phe Pro Ser Pro Asn Thr Leu				
	465		470	475
Pro Pro Ser Ala Leu Glu Glu Pro Ser Glu Val Arg Thr Gln Leu Val				
	485		490	495
Cys Ser Ser Glu Gln Gly Thr Glu Ser Glu Gln Arg Leu Glu Asn Thr				
	500		505	510
Asp Thr Pro Glu Asp Ser Ser Ser Pro Leu Pro Trp Ser Pro Asn Ser				
	515		520	525
Leu Phe Ala Gly Met Glu Leu Val Ala Cys Pro Arg Leu Pro Cys His				
	530		535	540
Ser Ser Gln Asp Leu Gln Thr Asp Leu Gln Lys Val Thr Thr Glu Ala				
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Leu Pro Ile Leu Leu Lys Gly Thr Ser Asp Asp Asp Val Pro Cys Pro	
20 25 30	
ggc tac ctg ttt gaa gag att gct aaa atc tcc cac gag tct ccg ggc	144
Gly Tyr Leu Phe Glu Glu Ile Ala Lys Ile Ser His Glu Ser Pro Gly	
35 40 45	
agc agc cag tgc ctg ctg gag tac ctc ctg agc cgc ctg cac agc agc	192
Ser Ser Gln Cys Leu Leu Glu Tyr Leu Leu Ser Arg Leu His Ser Ser	
50 55 60	
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Ser Gly His Gly Lys Leu Lys Val Leu Lys Ile Leu Leu Tyr Leu Cys	
65 70 75 80	
agc cac ggc tcc tcc ttc ttc ctg ctc atc ctc aaa cgc aac tct gcc	288
Ser His Gly Ser Ser Phe Phe Leu Leu Ile Leu Lys Arg Asn Ser Ala	
85 90 95	
ttc atc cag gaa gct gca gct ttt gca ggg ccc cca gat cct ctg cac	336
Phe Ile Gln Glu Ala Ala Ala Phe Ala Gly Pro Pro Asp Pro Leu His	
100 105 110	
ggg aac agc ttg tac cag aag gtt cgc gcg gcc gcg cag gac ttg ggg	384
Gly Asn Ser Leu Tyr Gln Lys Val Arg Ala Ala Ala Gln Asp Leu Gly	
115 120 125	
agc acc ctg ttc tcg gac acc gtg ttg ccg ctg gct ccc tcc cag cct	432
Ser Thr Leu Phe Ser Asp Thr Val Leu Pro Leu Ala Pro Ser Gln Pro	
130 135 140	
ctg ggg acc ccg cct gcc aca ggc atg ggc tcc cag gcc agg ccg cac	480
Leu Gly Thr Pro Pro Ala Thr Gly Met Gly Ser Gln Ala Arg Pro His	
145 150 155 160	
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Ser Thr Leu Gln Gly Phe Gly Tyr Ser Lys Glu His Gly Arg Thr Gly	
165 170 175	
tcg gca ggc gaa gcc ttc ctc tcc acc atc cag aag gcc gca gag gtg	576
Ser Ala Gly Glu Ala Phe Leu Ser Thr Ile Gln Lys Ala Ala Glu Val	
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Val Ala Ser Ala Met Arg Pro Gly Pro Glu Ser Pro Ser Thr Arg Arg	

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gac ctg agc agg gtc tcg gac tcg ggc agt cat tcc ggc agc gac agc Asp Leu Ser Arg Val Ser Asp Ser Gly Ser His Ser Gly Ser Asp Ser 275 280 285			864
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420	425	430	
cct ggc ccc aca gcc gcc ctc	cca ggc cca tct gac	ctg ctg acc gac	1344
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Ala Val Pro Leu Pro Gly Ser	Gln Val Phe Leu Gln	Pro Leu Ser Ser	
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acc ccg gtc tcg tcc cgg agc	cct gct ccc tca tct ggg	atg ccg tcc	1440
Thr Pro Val Ser Ser Arg Ser	Pro Ala Pro Ser Ser	Gly Met Pro Ser	
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Ser Pro Val Pro Thr Pro Pro	Pro Asp Ala Ser Pro Ile	Pro Ala Pro	
485	490	495	
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Gly Asp Pro Ser Glu Ala Glu	Ala Arg Leu Ala Glu Ser	Arg Arg Trp	
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aga cct gaa cgg atc ccg ggg	ggc acg gac agc cca aag	aga ggc ccc	1584
Arg Pro Glu Arg Ile Pro Gly	Gly Thr Asp Ser Pro Lys	Arg Gly Pro	
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Ser Ser Cys Ala Trp Ser Arg	Asp Ser Leu Phe Ala Gly	Met Glu Leu	
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Val Ala Cys Pro Arg Leu Val	Gly Ala Ala Ala Gly Glu	Ser	
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Cys Pro Asp Ala Pro Arg Ala	Pro Gln Thr Ser Ser Gln	Arg Thr Ala	
565	570	575	
gcc aaa gag cct cct ggc tca	gag ccg tca gct ttc gcg	ttc ctg aac	1776
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35 40 45

Ser Ser Gln Cys Leu Leu Glu Tyr Leu Leu Ser Arg Leu His Ser Ser  
50 55 60

Ser Gly His Gly Lys Leu Lys Val Leu Lys Ile Leu Leu Tyr Leu Cys  
65 70 75 80

Ser His Gly Ser Ser Phe Phe Leu Leu Ile Leu Lys Arg Asn Ser Ala  
85 90 95

Phe Ile Gln Glu Ala Ala Ala Phe Ala Gly Pro Pro Asp Pro Leu His  
100 105 110

Gly Asn Ser Leu Tyr Gln Lys Val Arg Ala Ala Ala Gln Asp Leu Gly  
115 120 125

Ser Thr Leu Phe Ser Asp Thr Val Leu Pro Leu Ala Pro Ser Gln Pro  
130 135 140

Leu Gly Thr Pro Pro Ala Thr Gly Met Gly Ser Gln Ala Arg Pro His  
145 150 155 160

Ser Thr Leu Gln Gly Phe Gly Tyr Ser Lys Glu His Gly Arg Thr Gly  
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Ser Ala Gly Glu Ala Phe Leu Ser Thr Ile Gln Lys Ala Ala Glu Val  
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Val Ala Ser Ala Met Arg Pro Gly Pro Glu Ser Pro Ser Thr Arg Arg  
195 200 205

Leu Leu Pro Arg Gly Asp Thr Tyr Gln Pro Ala Met Met Pro Ser Ala  
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Ser His Gly Pro Pro Thr Leu Gly Asn Leu Leu Pro Gly Ala Ile Pro  
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Gly Pro Arg Ala Val Arg His Gln Pro Gly Gln Ala Gly Gly Gly Trp  
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Val Val Ala Leu Ser Asp Cys Gln Gln Glu Leu Ser Leu Val Arg Thr  
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Val Thr Arg Gly Pro Arg Ala Phe Leu Ser Arg Glu Glu Ala Gln His  
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Phe Ile Lys Ala Cys Gly Leu Leu Asn Cys Glu Ala Val Leu Gln Leu  
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Leu Thr Cys His Leu Arg Gly Thr Ser Glu Cys Thr Gln Leu Arg Ala  
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Leu Cys Ala Ile Ala Ser Leu Gly Ser Ser Asp Leu Leu Pro Gln Glu  
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His Ile Leu Leu Arg Thr Arg Pro Trp Leu Gln Glu Leu Ser Met Gly  
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Ser Pro Gly Pro Val Thr Asn Lys Ala Thr Lys Ile Leu Arg His Phe  
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Glu Ala Ser Cys Gly Gln Leu Ser Pro Ala Arg Gly Thr Ser Ala Glu  
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Pro Gly Pro Thr Ala Ala Leu Pro Gly Pro Ser Asp Leu Leu Thr Asp  
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Ala Val Pro Leu Pro Gly Ser Gln Val Phe Leu Gln Pro Leu Ser Ser  
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Thr Pro Val Ser Ser Arg Ser Pro Ala Pro Ser Ser Gly Met Pro Ser  
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Ser Pro Val Pro Thr Pro Pro Pro Asp Ala Ser Pro Ile Pro Ala Pro  
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Gly Asp Pro Ser Glu Ala Glu Ala Arg Leu Ala Glu Ser Arg Arg Trp  
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Arg Pro Glu Arg Ile Pro Gly Gly Thr Asp Ser Pro Lys Arg Gly Pro  
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Ser Ser Cys Ala Trp Ser Arg Asp Ser Leu Phe Ala Gly Met Glu Leu  
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Val Ala Cys Pro Arg Leu Val Gly Ala Gly Ala Ala Ala Gly Glu Ser  
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